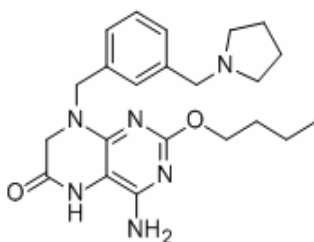


Product Data Sheet

Product Name: GS-9620
CAS No.: 1228585-88-3
Cat. No.: CS-1352

Structure



MWt: 410.51
Formula: C₂₂H₃₀N₆O₂
Solubility: DMSO
Purity : >98%

Biological Activity:

GS-9620 is a potent and selective orally active small molecule agonist of Toll-like receptor 7 (TLR-7) in chimpanzees with chronic HBV infection.

IC₅₀ Value:

Target: TLR7

GS-9620 is a novel oral agonist of Toll-like receptor 7 (TLR7) in development for the treatment of chronic viral hepatitis [1]. TLR7 is a highly conserved innate immune receptor expressed primarily on plasmacytoid dendritic cells and B lymphocytes [2].

in vitro:

in vivo: Short-term oral administration of GS-9620 provided long-term suppression of serum and liver HBV DNA. The mean maximum reduction of viral DNA w...

References:

[1]. Lanford RE, Guerra B, Chavez D, GS-9620, an Oral Agonist of Toll-Like Receptor-7, Induces Prolonged Suppression of Hepatitis B Virus in Chronically Infected Chimpanzees. *Gastroenterology*. 2013 Feb 13. pii: S0016-5085(13)00169-8.

[2]. Lopatin U, Wolfgang G, Tumas D, Safety, pharmacokinetics and pharmacodynamics of GS-9620, an oral Toll-like receptor 7 agonist. *Antivir Ther*. 2013;18(3):409-18.

Caution: Not fully tested. For research purposes only

ChemScene, LLC

MSDS

1 Composition

Product Name: GS-9620

Chemical Name:

6(5H)-Pteridinone, 4-amino-2-butoxy-7,8-dihydro-8-[[3-(1-pyrrolidinylmethyl)phenyl]methyl]-

CAS No.: 1228585-88-3

Appearance: white to off-white(Solid)

Formula: C22H30N6O2

Solubility: DMSO

2 Handling and Storage

HANDLING- Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE- Please store the product under the recommended conditions in the Certificate of Analysis.

3 Stability and Reactivity

STABILITY- Stable under normal handling conditions.

MATERIALS TO AVOID- Strong oxidizing agents.

REACTIVITY- May emit toxic gasses like Carbon monoxide, Carbon dioxide, Nitrogen oxides upon thermal decomposition.

4 Hazards Identification

Special indication of hazards to humans and the environment.

Irritating to eyes, respiratory system and skin.

5 First Aid

INHALATION- If inhaled, remove to fresh air. If not breathing give, artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT- In case of contact, immediately wash skin with soap and copious amounts of water.

EYE CONTACT- In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

INGESTION- If swallowed, wash out mouth with water provided person is conscious. Call a physician.

6 Fire Fighting Measures

EXTINGUISHING MEDIA

Water spray- Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s)- Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

7 Accident Release Measure

PROCEDURE(S) OF PERSONAL PRECAUTION(S)-Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP-Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

8 Accident Release Measure

No data available.

9 Toxicological Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

10 Regular Information

CLASSIFICATION- Substance not yet fully tested.

SAFETY PHASES- 26-36 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.) 36/37/38 (Irritating to eyes, respiratory system and skin.)

11 Disposal Considerations

As specific country, federal, state and local environmental regulations vary and change frequently we suggest you contact a local, authorized waste disposal contractor for adequate disposal.

12 Transport Information

RID/ADR- Non-hazardous for road transport.

IMDG- Non-hazardous for sea transport.

IATA - Non-hazardous for air transport.

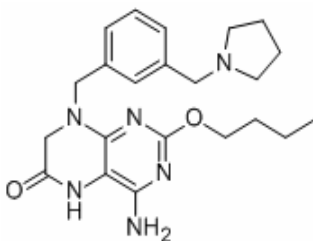
13 Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ChemScene LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

Caution: Not fully tested. For research purposes only

ChemScene, LLC

Certificate of Analysis

Product Name	GS-9620
CAS No.	1228585-88-3
Batch No.	11533
Structure	

Test Date	04/25/2014	Retest Date	04/24/2016
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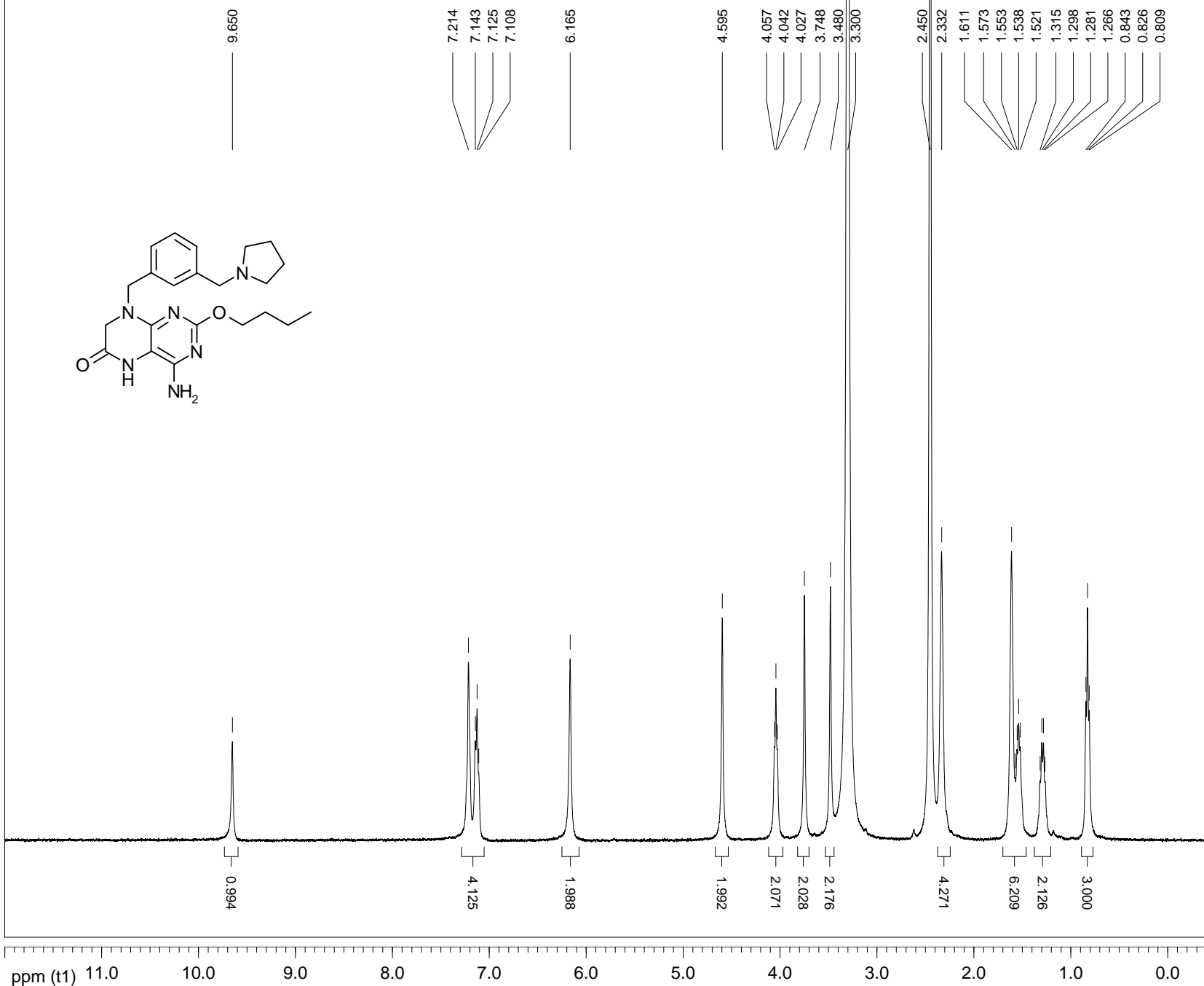
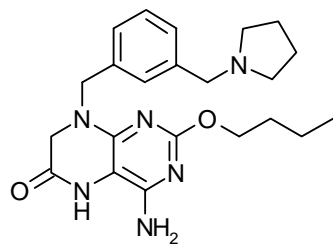
Items	Specifications	Results
Appearance	White to off-white Solid	Conforms
Identification	1H NMR spectrum of sample corresponds to that of standard preparation	Conforms
	Mass spectrum of sample corresponds to that of standard preparation	Conforms
	The retention time of the major peak in the chromatogram of sample corresponds to that in the chromatogram of standard preparation	Conforms
Purity by LCMS	NLT 98.0%	98.26%
Conclusion	The product tested complies with the specifications.	
Storage condition: Store in a tightly closed container, in a cool and dry place.		

Caution: Not fully tested. For research purposes only

ChemScene, LLC

11 Deer Park Drive, Suite 102D, Monmouth Junction, NJ 08852
Tel: 732-484-9848 Fax: 888-484-5008 Email: info@chemscene.com Web: www.chemscene.com

Sample ID: BIZ2014-425-ZLQ7, Ecmipi 'Pq<EU3574'Dcvej %33755, DMSO



Date:

28 Apr 2014

Document's Title:

Özet * A [KÜEHİ GÖZGÜFFİ H

Spectrum Title:

biz2014-425-zlq7-dms0-140425

Frequency (MHz):

(f1) 400.130

Original Points Count:

(f1) 32768

Actual Points Count:

(f1) 32768

Acquisition Time (sec):

(f1) 3.9846

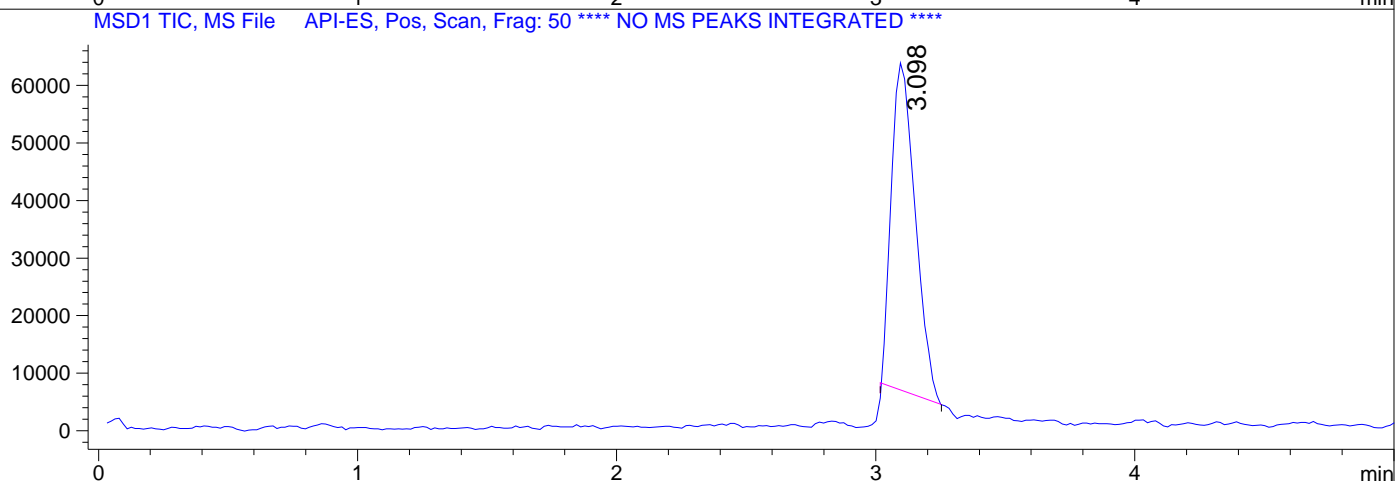
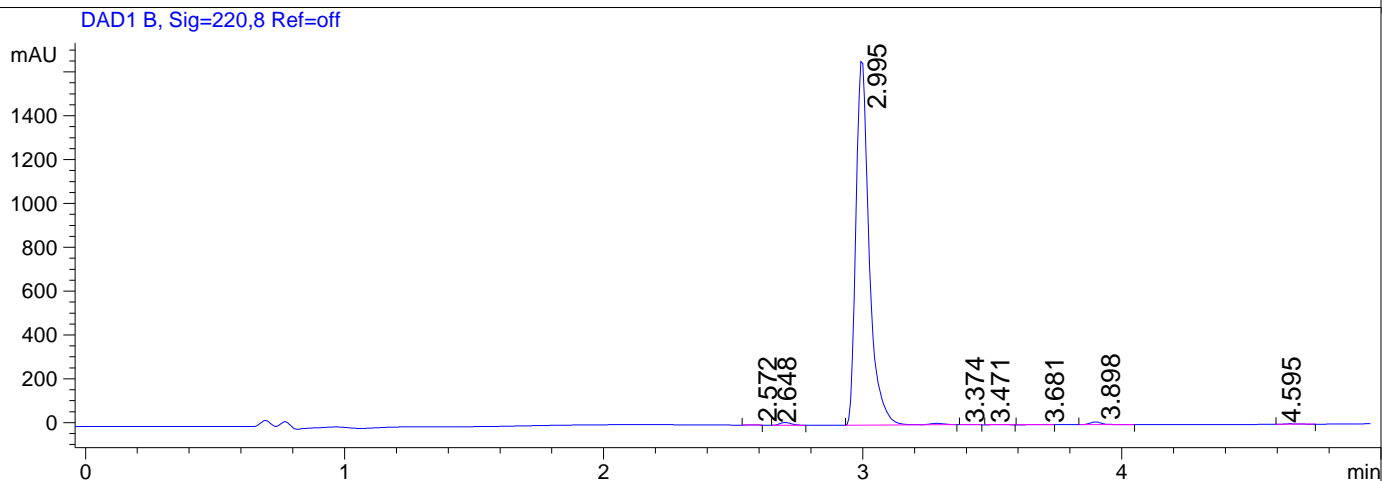
Spectral Width (ppm):

(f1) 20.553

Pulse Program:

Unknown

Lot Number : BIZ2014-425-ZLQ7 **Location** : Vial 30
Injection Date : 25 Apr 14 2:10 pm **Seq. Line** : 36
Acq. Operator : KL **Inj Volume** : 3 ul
Acq. Method : E:\METHODS\METHODS\20101020\5-50A.M
Analysis Method : E:\METHODS\METHODS\20101020\BL3A.M
Catalog No : CS-1352 Batch#11533
Test Type :



Integration Results for DAD1 B, Sig=220,8 Ref=off

RetTime	Width	Area	Height	Area%	MSBase (+)
2.57	0.05	4.15	1.54	0.07	ND
2.65	0.05	38.45	-0.05	0.64	ND
3.00	0.06	5939.94	1681.34	98.26	206.1
3.37	0.05	2.96	-0.10	0.05	ND
3.47	0.06	3.50	0.07	0.06	ND
3.68	0.07	2.46	0.56	0.04	ND
3.90	0.06	43.54	12.67	0.72	ND
4.60	0.06	10.09	0.10	0.17	ND

Ret. Time: 3.10 <<< POSITIVE SPECTRA >>>

