

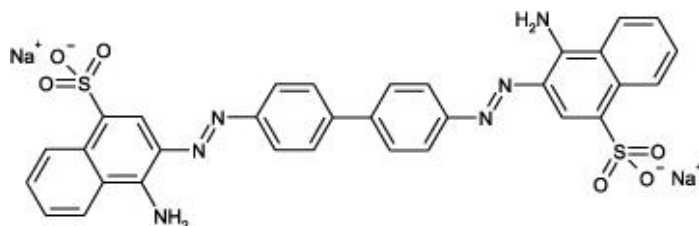
PRODUCT DATA SHEET



ENZ-52552

Congo Red (ultra pure)

β -Amyloid dye



Product Number/Sizes

ENZ-52552

100 mg

Congo Red, has been used in microscopy for staining elastic fibers and bacteria. Amyloid protein, an abnormal protein aggregate associated with various pathologies, is commonly detected in tissue with Congo Red. Detection of amyloid is relevant for a whole host of diseases, including Alzheimer's disease, Creutzfeldt-Jakob's disease and Bovine Spongiform Encephalopathy. The birefringence of Congo Red-stained amyloid, appearing green under polarized light, improves detection relative to simple visible examination of the colored deposits. Additionally, upon binding to amyloid, Congo Red displays bright fluorescence emission at 614 nm. Wavelength Maxima: Excitation 497nm

Product Specifications

FORMULA:	C ₃₂ H ₂₂ N ₆ Na ₂ O ₆ S ₂
MW:	696.7
PURITY:	≥95% (HPLC)
APPEARANCE:	Brown powder.
CAS:	573-58-0
SOLUBILITY:	Soluble in DMSO.
LONG TERM STORAGE:	-20°C
USE/STABILITY:	Stable for at least one year after receipt when stored as recommended.
HAZARD:	MAY BE CARCINOGENIC. MAY BE TERATOGENIC.
HANDLING:	Keep cool and dry. Protect from light.

Product Literature References

Physical basis of colors seen in Congo red-stained amyloid in polarized light A.J. Howie, et al. Lab. Invest. **88** 232 (2008)

Quantification of cerebral amyloid angiopathy and parenchymal amyloid plaques with Congo red histochemical stain D.M. Wilcock, et al. Nat. Protoc. **1** 1591 (2006)

Background/Technical Information

This product is a member of the CELLestial[®] product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELLestial[®] reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency and reproducibility are required.

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WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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