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DATASHEET

Congo Red

Product overview

Name	Congo Red
Cat No	HB0737
Alternative names	Congo Red 4B; Cosmos Red; Cotton Red B; Cotton Red C; Direct Red 28; Direct Red R; Direct Red Y
Biological description	Acid dye that binds to amyloid proteins. Displays colour changes at different pHs (pH 3.0- Blue, pH 5.0- Red). Demonstrates the presence of amyloidosis. Affects growth and metabolic activity in photosynthetic organisms.
Biological action	Dyes & stains
Purity	>98%
Description	Acid dye that binds to amyloid proteins

Images



Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water, and in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Congo Red 4B; Cosmos Red; Cotton Red B; Cotton Red C; Direct Red 28; Direct Red R; Direct Red Y
Molecular Weight	696.7
Chemical structure	
Molecular Formula	$C_{32}H_{22}N_6O_6S_2 \cdot 2Na$
CAS Number	573-58-0
PubChem identifier	11313
SMILES	<chem>C1=CC=C2C(=C1)C(=CC(=C2N)N=NC3=CC=C(C(=C3)C4=CC=C(C(=C4)N=NC5=C(C6=CC=CC=C6C(=C5)S(=O)(=O)[O-])N)S(=O)(=O)[O-].[Na+].[Na+])</chem>
InChiKey	IQFVPQOLBLOTPF-UHFFFAOYSA-L

References

Congo' red: out of Africa?

Steensma DP (2001) Arch Pathol Lab Med 125(2)

PubMedID [11175644](#)

Physiological and biochemical responses of *Chlorella vulgaris* to Congo red.

Hernández-Zamora M *et al* (2014) Ecotoxicol Environ Saf 108

PubMedID [25042247](#)

An evaluation of Congo red fluorescence for the diagnosis of amyloidosis.

Clement CG *et al* (2014) Hum Pathol 45(8)

PubMedID [24935061](#)
