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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

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|-----------------------------|---|
| 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(=C2)N)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](#)
