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DATASHEET

Eosin B

Product overview

Name	Eosin B
Cat No	HB0757
Alternative names	Acid Red 91; C.I. 45400; Saffrosine; Eosin Scarlet; imperial red
Biological description	Organic dye used to stain and quantify proteins. Sensitivity is strengthened by the addition of magnesium. Highly selective and potent inhibitor of several drug-resistant malarial strains (Average $IC_{50} = 124$ nM). Displays anti-parasitic properties.
Biological action	Dyes & stains
Description	Organic dye used to stain and quantify proteins

Images



Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO and in water
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	Acid Red 91
Molecular Weight	624.06
Chemical structure	
Molecular Formula	$C_{20}H_8Br_2N_2Na_2O_9$
CAS Number	548-24-3
PubChem identifier	26697441
SMILES	<chem>O=C(O[Na])c4ccccc4C=2c3cc([N+](O-)=O)c(O[Na])c(Br)c3OC=1C=2C=C(C(=O)C=1Br)[N+](O-)=O</chem>
InChiKey	GYTYUGVBYJHE-UHFFFAOYSA-L
MDL number	MFCD00005041

References

Eosin B as a novel antimalarial agent for drug-resistant *Plasmodium falciparum*.

Massimine KM *et al* (2006) *Antimicrob Agents Chemother* 50(9)

PubMedID [16940112](#)

Efficacy of eosin B as a new antimalarial drug in a murine model.

Zamani Z *et al* (2012) *Malar Res Treat* 2012

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Promoted negative staining of proteins in SDS-PAGE using Eosin B compounded with magnesium chloride.

Wang X *et al* (2010) *Electrophoresis* 31(23-24)

PubMedID [21080370](#)

Application of an eosin B dye method for estimating a wide range of proteins.

Waheed AA *et al* (1996) *J Biochem Biophys Methods* 33(3)

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