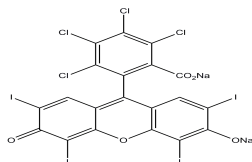


PRODUCT: Rose Bengal

ALTERNATE NAME: 4,5,6,7-Tetrachloro-3',6'-dihydroxy-2',4',5',7'-tetraiodo-spiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one disodium salt; Rose Bengal sodium salt; Acid Red 94

CATALOG #: 2587-100, 500

AMOUNT: 100 mg, 500 mg

STRUCTURE:

MOLECULAR FORMULA: $C_{20}H_2Cl_4I_4Na_2O_5$

MOLECULAR WEIGHT: 1017.64

CAS No. 632-69-9

APPEARANCE: Red solid

SOLUBILITY: H_2O (~ 100 mg/ml) or DMSO (~50 mg/ml)

PURITY: λ_{max} : 547.0-551.0 nm (0.02 M Ammonium acetate)

STORAGE: Store at RT. Protect from light and moisture

DESCRIPTION: Cell-permeable. Rose Bengal is a polyhalogenated fluorescein derivative that acts as a potent inhibitor ($K(i) = 19$ nM) of glutamate uptake into isolated synaptic vesicles. This vesicular Glu uptake inhibition was achieved largely without affecting $H(+)$ -pump ATPase.

REFERENCES: Ogita, K., *et al.* (2001). *J. Neurochem.* **77**, 34-42.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Congo Red (Cat. No. 2588-100, 500)

Evans Blue Tetrasodium (Cat. No. 2586-1G)

Glutamate Colorimetric Assay Kit (Cat. No. K629-100)

JM6 (Cat. No. 1913-5, 25)

Kainic acid (Cat. No. 2279-5, 25)

RO 61-8048 (Cat. No. 1912-5, 25)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans.**