

Product Data Sheet

Product Name: CellFluor™ GST

Cat. No.: GC92062

Chemical Properties

Cas. No. 1028386-82-4

Chemical Name 9-(2-carboxyphenyl)-3,6-bis[[2,4-dinitrophenylsulfonyl]amino]-xanthylium, inner salt

SMILES O=S(C(C([N+])([O-])=O)=C1)=CC=C1[N+](O-)=O)(NC2=CC([O+]=C3C(C=CC(NS(C(C([N+])([O-])=O)=C4)=CC=C4[N+](O-)=O)(=O)=O)=C3)=C5C6=C(C([O-])=O)C=CC=C6)=C5C=C2)=O

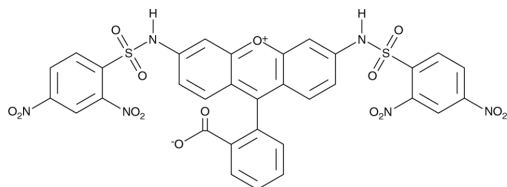
Formula $C_{32}H_{18}N_6O_{15}S_2$ M.Wt 790.6

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CellFluor[®] GST is a cell-permeable quenched fluorescent probe for the detection of pan-glutathione S-transferase (GST) activity in adherent or suspension cells, cell or tissue lysates, or purified enzyme preparations. It is composed of rhodamine 110 protected by the GST substrate

dinitrobenzenesulfonamide (DNB).^{1,2} Upon deprotection by GSTs, rhodamine 110 is released, and its fluorescence can be quantified using excitation/emission maxima of 496/520 nm, respectively.

References:

[1]. Shibata, A., Furukawa, K., Abe, H., et al. Rhodamine-based fluorogenic probe for imaging

Caution: Product has not been fully validated for medical applications. For research use only.

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biological thiol *Bioorg. Med. Chem. Lett.* 18(7)2246-2249(2008).

[2]. ?lander, J., Johansson, K., Heuser, V.D., et al. Characterization of a new fluorogenic substrate for microsomal glutathione transferase 1 *Anal. Biochem.* 390(1)52-56(2009).

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