

Product datasheet

TMPyP4 tosylate ab120793

1 Image

Overview

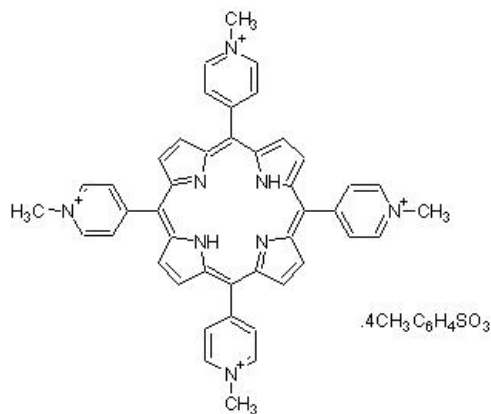
Product name	TMPyP4 tosylate
Description	Telomerase inhibitor. Binds and stabilizes DNA G-quadruplexes.
Biological description	Cationic porphyrin. Telomerase inhibitor (IC ₅₀ = 6.5 μM). Binds and stabilizes DNA G quadruplexes resulting in telomerase inhibition. Displays antitumor effect.
Purity	> 94%

Properties

Chemical name 5,10,15,20-Tetrakis(1-methylpyridinium-4-yl)porphyrin tetra(*p*-toluenesulfonate)

Molecular weight 1363.60

Chemical structure



Molecular formula C₇₂H₆₆N₈O₁₂S₄

CAS Number 36951-72-1

Storage instructions Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.

Solubility overview Soluble in water to 100 mM

Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

Source

Synthetic

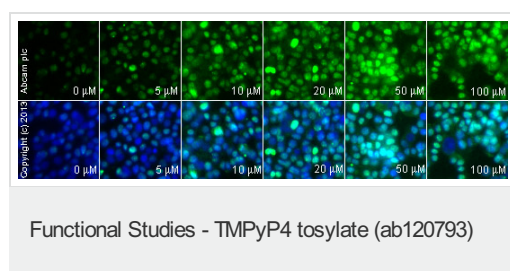
Applications

Our [Abpromise guarantee](#) covers the use of **ab120793** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



[ab2893](#) staining γ H2A.X in weri cells treated with TMPyP4 tosylate ([ab120793](#)), by ICC/IF. Increase of γ H2A.X nuclear expression correlates with increased concentration of TMPyP4 tosylate, as described in literature. The cells were incubated at 37°C for 24 hours in media containing different concentrations of [ab120793](#) (TMPyP4 tosylate) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with [ab2893](#) (1 μ g/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody ([ab96899](#)) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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