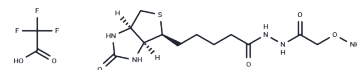


Aldehyde Reactive Probe (trifluoroacetate salt)

Chemical Properties

CAS No. :	627090-10-2
Formula:	C ₁₄ H ₂₂ F ₃ N ₅ O ₆ S
Molecular Weight:	445.41
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	DNA is continually damaged by endogenous and environmental agents leading to the formation of abasic (apurinic/aprimidinic, AP) sites that are disruptive to DNA synthesis. Aldehyde Reactive Probe (ARP) is a biotinylated reagent for the detection and quantification of AP sites in damaged DNA. ARP reacts with aldehyde groups formed when reactive oxygen species depurinate DNA, resulting in covalent linkage of biotin to these AP sites. The biotin-tagged DNA can then be detected using common avidin-conjugated reporters such as avidin-HRP. The ARP method is highly sensitive, enabling detection of 2.4 AP sites per 1x10 ⁷ nucleotides of DNA.
-------------	--

Solubility Information

Solubility	DMSO: 15 mg/mL DMF: 20 mg/mL PBS (pH 7.2): 3 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2451 mL	11.2256 mL	22.4512 mL
5 mM	0.449 mL	2.2451 mL	4.4902 mL
10 mM	0.2245 mL	1.1226 mL	2.2451 mL
50 mM	0.0449 mL	0.2245 mL	0.449 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481