
Product Data Sheet

Product Name: Se-Aspirin

Cat. No.: GC15267

Chemical Properties

Cas. No. 1850293-95-6

Chemical Name selenocyanic acid, 2-[[2-(acetyloxy)benzoyl]amino]ethyl ester

SMILES O=C(C)OC1=CC=CC=C1C(NCC[Se]C#N)=OFormula $C_{12}H_{12}N_2O_3Se$ M.Wt 311.2Solubility $\leq 10\text{mg/ml}$ in ethanol; 30mg/ml in DMSO; 50mg/ml in dimethyl formamide Storage Store at -20°C General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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**

Se-Aspirin is a novel selenium-nonsteroidal anti-inflammatory drug (Se-NSAID) [1].

NSAIDs have demonstrated intestinal antineoplastic effects in various animal intestinal cancer models. Selenium (Se) compounds have attracted a vast interest as promising chemo-preventive agents. Several epidemiological studies have reported an inverse association between the nutritional Se status and cancer risk. Se functioned as chemo-preventive agent for cancer therapy in the past few years.

Se-Aspirin was a hybrid of selenium and a nonsteroidal anti-inflammatory drug. t Se-Aspirin reduced the viability of different cancer cell lines, particularly colorectal cancer (CRC) cells with the IC50 value of $3.4\ \mu\text{M}$. Se-Aspirin inhibited the cell cycle in G1 and G2/M phases and induced apoptosis by activating caspase 3/7 and PARP cleavage. Long-term exposure to Se-Aspirin has been reported to cause an increase in intracellular reactive oxygen species levels in CRC cells [1].

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

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Reference:

[1] Plano D, Karelia D N, Pandey M K, et al. Design, synthesis, and biological evaluation of novel selenium (Se-NSAID) molecules as anticancer agents[J]. Journal of medicinal chemistry, 2016, 59(5): 1946-1959.

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