

Product Data Sheet

Product Name: Isovanillin

Cat. No.: GC33753

Chemical Properties

Cas. No. 621-59-0

SMILES O=CC1=CC=C(OC)C(O)=C1

Formula $C_8H_8O_3$

M.Wt 152.15

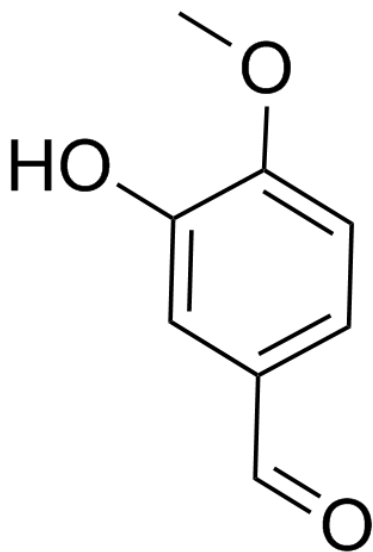
Solubility DMSO : 100 mg/mL (657.25 mM;
Need ultrasonic)

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

Isovanillin is an aldehyde oxidase inhibitor[1]. Antispasmodic activities[2]. Antidiarrheal activities[3].

Isovanillin is not a substrate for aldehyde oxidase and therefore it is metabolized to isovanillic acid predominantly by aldehyde dehydrogenase[1]. Isovanillin is relaxant of ileum contractions induced by

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

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5-HT ($IC_{50}=356\pm 50\mu M$) [2].

Isovanillin (2 mg/kg & 5 mg/kg) and iso-acetovanillon (2 mg/kg & 5 mg/kg) both have antidiarrheal and anti-motility effect on gastrointestinal tract[3].

[1]. Panoutsopoulos GI, et al. Enzymatic oxidation of vanillin, isovanillin and protocatechuic aldehyde with freshly prepared Guinea pig liver slices. Cell Physiol Biochem. 2005;15(1-4):89-98. [2]. Sadraei H, et al. Antispasmodic activity of isovanillin and isoacetovanillon in comparison with Pycnocycla spinosa Decne.exBoiss extract on rat ileum. Res Pharm Sci. 2014 May-Jun;9(3):187-92. [3]. Sadraei H, et al. Antidiarrheal activities of isovanillin, iso-acetovanillon and Pycnocycla spinosa Decne ex.Boiss extract in mice. Res Pharm Sci. 2014 Mar-Apr;9(2):83-9.

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