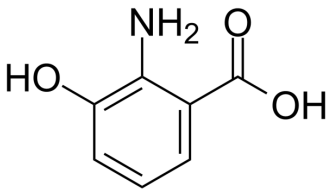
3-Hydroxyanthranilic acid

Cat. No.:	HY-W001171
CAS No.:	548-93-6
Molecular Formula:	$C_7H_7NO_3$
Molecular Weight:	153.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (326.50 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.5300 mL	32.6499 mL	65.2997 mL
	5 mM	1.3060 mL	6.5300 mL	13.0599 mL
	10 mM	0.6530 mL	3.2650 mL	6.5300 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 0.5% CMC-Na/saline water
   Solubility: 20 mg/mL (130.60 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 50% PEG300 >> 50% saline
   Solubility: 20 mg/mL (130.60 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (16.32 mM); Suspended solution; Need ultrasonic
4. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	3-Hydroxyanthranilic acid is a tryptophan metabolite in the kynurenine pathway.
IC_{50} & Target	Human Endogenous Metabolite

REFERENCES

[1]. Lee WS, et al. The tryptophan metabolite 3-hydroxyanthranilic acid suppresses T cell responses by inhibiting dendritic cell activation. Int Immunopharmacol. 2013 Nov;17(3):721-6.

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

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