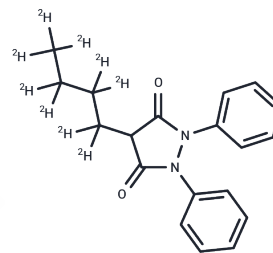


Phenylbutazone-D9

Chemical Properties

CAS No. :	1189479-75-1
Formula:	C ₁₉ H ₁₁ D ₉ N ₂ O ₂
Molecular Weight:	317.43
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Phenylbutazone-D9 is intended for use as an internal standard for the quantification of phenylbutazone by GC- or LC-MS. Phenylbutazone (T1432) is a non-steroidal anti-inflammatory drug and an inhibitor of the peroxidase activity of COX (IC ₅₀ = ~100 μM in the presence of hydrogen peroxide). It also inhibits prostaglandin I synthase (IC ₅₀ = ~25 μM in the presence of hydrogen peroxide). Phenylbutazone (T1432) (2 mg/kg) reduces increases in type II collagen levels in the inflamed joints of an equine model of LPS-induced acute synovitis. Formulations containing phenylbutazone have been used in the treatment of lameness in horses.
Targets(IC ₅₀)	COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1503 mL	15.7515 mL	31.503 mL
5 mM	0.6301 mL	3.1503 mL	6.3006 mL
10 mM	0.315 mL	1.5752 mL	3.1503 mL
50 mM	0.063 mL	0.315 mL	0.6301 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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