

Progesterone-BSA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Progesterone-BSA is a conjugate of progesterone and bovine serum albumin (BSA). Due to its large molecular weight, this product is cell-membrane impermeable and binds to proteins such as glyceraldehyde-3-phosphate dehydrogenase (GAPDH) to modulate their enzymatic activity. It is used to differentiate non-genomic effects mediated by membrane receptors from genomic effects mediated by intracellular receptors, serving as a pharmacological tool for researching the membrane-associated mechanisms of steroid hormones.
Targets(IC50)	Others
In vitro	In biochemical assays, Progesterone-BSA binds specifically to purified GAPDH and inhibits its enzyme activity in a concentration-dependent manner, whereas free progesterone exhibits a significantly lower inhibitory effect, demonstrating the conjugate's utility in identifying and targeting membrane-associated steroid-binding sites [1].

Reference

Joe I, et al. Binding of estrogen and progesterone-BSA conjugates to glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and the effects of the free steroids on GAPDH enzyme activity: physiological implications. Steroids. 2001 Jun;66(6):529-38

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:34 Washington Street,Wellesley Hills,MA 02481