



Fentanyl [BSA] (DAG398)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Conjugate	BSA
Applications	ELISA
Format	Lyophilized, Reconstitute in distilled or deionized water.
Concentration	Batch dependent - please inquire should you have specific requirements
Size	1 mg
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Fentanyl is a synthetic, lipophilic phenylpiperidine opioid agonist with analgesic and anesthetic properties. Fentanyl selectively binds to and activates the mu-receptor in the central nervous system (CNS) thereby mimicking the effects of endogenous opiates. Activation of the mu-subtype opioid receptor stimulates the exchange of GTP for GDP on the G-protein complex and subsequently inhibits adenylate cyclase. This causes a decrease in intracellular cAMP which inhibits cAMP-mediated calcium influx into the cell via the calcium channels and thereby results in hyperpolarization and reduced neuronal excitability.
Keywords	Fentanyl; Fentanest; Fentanil; Fentanila; Fentanylum