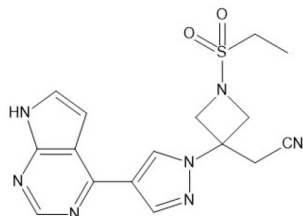


Baricitinib

Catalogue No.: abx076867



Baricitinib is a small molecule which can act as an Immunosuppressant; JAK1/2 inhibitor. It is provided as a white-to-off-white powder.

Baricitinib is an inhibitor of Janus kinases 1 and 2 (JAK1/2), with potential anti-inflammatory, immunomodulating and antineoplastic activities. Upon administration, baricitinib binds to JAK1/2, which inhibits JAK1/2 activation and leads to the inhibition of the JAK-signal transducers and activators of transcription (STAT) signaling pathway. This decreases the production of inflammatory cytokines and may prevent an inflammatory response. In addition, baricitinib may induce apoptosis and reduce proliferation of JAK1/2-expressing tumor cells. JAK kinases are intracellular enzymes involved in cytokine signaling, inflammation, immune function and hematopoiesis; they are also upregulated and/or mutated in various tumor cell types.

This product acts on the following target types: Kinase.

This product acts on the following biochemical pathways: Cytokine.

This product may be of interest in the following research areas and diseases: Immunology, Inflammation, Infectious disease.

This product may act as a Coronavirus inhibitor: Significantly improved COVID-19 symptoms in preliminary human trial, presumably through suppression of "Cytokine storm".

Please note that our chemical products are for scientific research use only in a laboratory and are not for medical or veterinary use. This product can only be dispatched to a scientific business or laboratory address.

Target: Baricitinib

Form: Solid

Purity: > 98% (HPLC). Conforms to structure by NMR.

Reconstitution: Soluble in DMSO (30 mg/ml) or DMF (50 mg/ml).

Storage: Store desiccated at -20 °C for up to 2 years. Solutions can be stored at -20 °C for up to 3 months.

Molecular Weight: 371.4 g/mol

Molecular Formula: C₁₆H₁₇N₇O₂S

Buffer: Not applicable.

Datasheet

Version: 6.0.0

Revision date: 07 Apr 2025



CAS Number: 1187594-09-7

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only