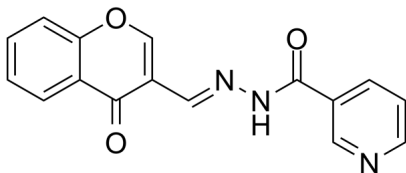


## Certificate of Analysis

Catalog Number	BP15261
Product Name	STAT5-IN-1

## Physical and Chemical Properties

Synonyms	STAT5 Inhibitor
CAS No.	285986-31-4
Chemical Formula	C <sub>16</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight	293.282
Solubility	DMSO: 23.0 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	STAT5 Inhibitor is a cell-permeable inhibitor which suppresses Stat5 via binding to the SH2 domain.
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Targets&IC50	STAT5:47 $\mu$ M
In vitro	The signal transducer and activator of transcription 5 (STAT5) is a member of the STAT family of proteins, implicated in cell growth and differentiation. STAT5-IN-1 inhibits STAT5 by binding to the SH2 domain. The functions of the SH2 domains of STAT3, STAT1, and of the tyrosine kinase Lck are inhibited to a lesser extent (IC <sub>50</sub> >500 $\mu$ M). STAT5-IN-1 block STAT5/STAT5 DNA binding in K562 nuclear extracts. Substitution of the hydrogen at C6 of the chromone ring by an ethyl group does not affect activity of STAT5-IN-1 against STAT5 $\beta$ , but leads to complete loss of selectivity against other STAT family members

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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