


Certificate of Analysis

Catalog Number	BP10314
Product Name	TCS 21311

Physical and Chemical Properties

Synonyms	NIBR3049
CAS No.	1260181-14-3
Chemical Formula	C ₂₇ H ₂₅ F ₃ N ₄ O ₄
Molecular Weight	526.516
Solubility	DMSO: ≥ 53 mg/mL (129.13 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	TCS 21311 (NIBR3049) is a potent, highly selective JAK3 inhibitor with an IC ₅₀ of 8 nM, it displays >100-fold selectivity over JAK1, JAK2 and TYK2. TCS 21311 (NIBR3049) inhibits PKCα, PKCθ, and GSK3β with IC ₅₀ s of 13, 68, and 3 nM, respectively.
Targets&IC ₅₀	JAK2: 2.55 μM, PKCα: 13 nM, JAK1: 1.017 μM, PKCθ: 68 nM, JAK3: 8 nM, GSK-3β: 3 nM

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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