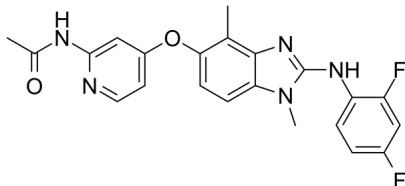


Certificate of Analysis

| | |
|----------------|---------|
| Catalog Number | BP10864 |
| Product Name | CHZ868 |

Physical and Chemical Properties

| | |
|--|--|
| CAS No. | 1895895-38-1 |
| Chemical Formula | C ₂₂ H ₁₉ F ₂ N ₅ O ₂ |
| Molecular Weight | 423.424 |
| Solubility | DMSO: 145 mg/mL (342.45 mM) |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image |  |

Product Information

| | |
|--------------------------|---|
| Description | CHZ868 is a type II JAK2 inhibitor (IC ₅₀ : 0.17 μM in EPOR JAK2 WT Ba/F3 cell). |
| Targets&IC ₅₀ | JAK2: 110 nM |

| | |
|----------|--|
| In vitro | CHZ868 is dissolved in DMSO to make 10 mM stock solution and diluted in culture media. Cells are treated with CHZ868 (0, 0.05, 0.1, 0.2 μ M) or vehicle (DMSO). After 48 hr (Ba/F3 cells) or 72 hr (MHH-CALL4 and PDX cells), CellTiter-Glo Luminescent Cell Viability Assay is added (10 μ L undiluted or 25 μ L of a 1:2 dilution in each well) and plates are read. |
| In vivo | CHZ868 is reconstituted in 0.5% methylcellulose / 0.5% Tween-80 and administered at doses of 10 or 30 mg/kg/day by oral gavage. Pharmacokinetic/pharmacodynamic and efficacy studies in the mouse model of rhEpo-induced polycythemia are carried out essentially. Detection of STAT5 phosphorylation in spleen lysates by Meso Scale Discovery is performed. |

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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