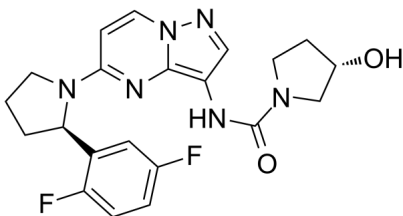


Certificate of Analysis

Catalog Number	BP10252
Product Name	Larotrectinib

Physical and Chemical Properties

Synonyms	LOXO-101, ARRY-470
CAS No.	1223403-58-4
Chemical Formula	C ₂₁ H ₂₂ F ₂ N ₆ O ₂
Molecular Weight	428.444
Solubility	DMSO: 4.6 mg/mL (10.74 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of Larotrectinib is shown. It features a central pyrazole ring substituted with a 4-fluorophenyl group, a 4-fluorophenyl group, and a 4-hydroxypiperidin-1-yl group. The structure is drawn with stereochemistry indicating the (S) configuration at the chiral center.</p>

Product Information

Description	Larotrectinib is an orally administered inhibitor of the TRK kinase and is highly selective only for the TRK family of receptors (IC ₅₀ s = 2-20 nM).
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Targets&IC50	TRK: 2-20 nM
In vivo	Mice were maintained under aseptic conditions. The care and treatment of experimental animals was in accordance with institutional guidelines. 5×10^5 KM12 cells were injected subcutaneously into the dorsal flank area of the mice. Tumor volume was monitored by direct measurement with calipers and calculated by the formula: length \times (width ²)/2. Following the establishment of tumor and when the tumor size was between 150-200 mm ² , mice were randomly selected to receive diluent, 60 mg/kg/dose or 200 mg/kg/dose of Larotrectinib(LOXO-101). LOXO-101 was administered by oral gavage once daily for 14 days. After the last dose, tissue and blood were collected at 3, 6 and 24 hours post-treatment.

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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