# PRODUCT INFORMATION

## ABBV-744

*Item No. 30470*

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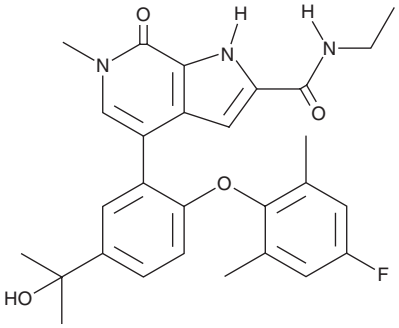
|---|---|
| **CAS Registry No.:** | 2138861-99-9 |
| **Formal Name:** | N-ethyl-4-[2-(4-fluoro-2,6-dimethylphenoxy)-5-(1-hydroxy-1-methylethyl)phenyl]-6,7-dihydro-6-methyl-7-oxo-1H-pyrrolo[2,3-c]pyridine-2-carboxamide |
| **MF:** | $C_{28}H_{30}FN_3O_4$ |
| **FW:** | 491.6 |
| **Purity:** | ≥98% |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

ABBV-744 is supplied as a crystalline solid. A stock solution may be made by dissolving the ABBV-744 in the solvent of choice, which should be purged with an inert gas. ABBV-744 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of ABBV-744 in these solvents is approximately 30 mg/ml.

ABBV-744 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ABBV-744 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ABBV-744 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

ABBV-744 is an inhibitor of the bromodomain and extra-terminal domain (BET) family protein bromodomain 2 (BD2; $K_i$s = 4.6, 4.9, 1.6, and 1 nM for BRD2, -3, -4, and -T, respectively).[1] It is selective for BD2 over BD1 bromodomains in a time-resolved FRET (TR-FRET) assay ($K_i$s = 1,162, 3,140, 521, and 917 nM for BRD2, -3, -4, and -T, respectively). ABBV-744 inhibits proliferation of SKM-1 leukemia cells ($IC_{50}$ = 6.7 nM). It induces cell cycle arrest at the $G_1$ phase in LNCaP prostate cancer cells.[2] ABBV-744 (18.8 mg/kg) reduces tumor volume in a SKM-1 mouse xenograft model.[1] It also reduces tumor growth in LNCaP and MDA PCa 2b mouse xenograft models when administered at doses of 1 and 4.7 mg/kg.[2]

### References


1. Sheppard, G.S., Wang, L., Fidanze, S.D., *et al*. Discovery of *N*-Ethyl-4-[2-(4-fluoro-2,6-dimethyl-phenoxy)-5-(1-hydroxy-1-methyl-ethyl)phenyl]-6-methyl-7-oxo-1*H*-pyrrolo[2,3-c]pyridine-2-carboxamide (ABBV-744), a BET bromodomain inhibitor with selectivity for the second bromodomain. *J. Med. Chem.* **63(10)**, 5585-5623 (2020).
2. Faivre, E., McDaniel, K.F., Albert, D.H., *et al*. Selective inhibition of the BD2 bromodomain of BET proteins in prostate cancer. *Nature*. **578(7994)**, 306-310 (2020).





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