

DATA SHEET

Product Name: Dabrafenib

Catalog #: CV-1011

Alt: CAS # 1195765-45-7; N-[3-[5-(2-amino-4-pyrimidinyl)-2-(1,1-dimethylethyl)-4-

thiazolyl]-2-fluorophenyl]-2,6-difluoro-benzenesulfonamide; GSK2118436

Molecular Mass: 519.6

Description:

Analysis: >98% (TLC); NMR (conforms)

Supplied As: Off-white powder

Resuspension: May be dissolved in DMSO (30 mg/ml); or ethanol (1 mg/ml, warm)

Storage: Store desiccated as supplied at -20°C for up to 1 year. Store solutions at

-20°C for up to 3 months.

Dabrafenib is a selective inhibitor of mutant B-Raf^{V600E} ($IC_{50} = 0.8$ nM), with 4-and 6-fold reduced potency against wild type B-Raf and c-Raf ($IC_{50} = 3.2$

and 5 nM, respectively)¹. Has been in clinical trials in patients with B-Raf^{V600E}

metastatic melanoma and other solid tumors. Endoplasmic reticulum stress and autophagy are induced in melanoma cells after treatment with

dabrafenib and protect cells from dabrafenib toxicity². Induces epithelial

addition in a protect cells from addition toxicity. Induces epithelic

differentiation in BRAF-mutant colorectal cancer cells³.

1. Huang, J., et al., (2013) J. Hematol. Oncol., 6:1

References: 2. Ji, C., et al., (2016) Drug Des. Dev. Ther., 10: 2491

3. Herr, R., et al., (2015) Cancer Res., 75: 216

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