**Product Data Sheet**

### Chemical Properties

- **Product Name:** Raltegravir (MK-0518)
- **Cas No.:** 518048-05-0
- **M.Wt:** 444.4
- **Formula:** C20H21FN6O5
- **Synonyms:** Raltegravir, MK0518
- **Chemical Name:** N-[2-[4-[(4-fluorophenyl)methylcarbamoyl]-5-hydroxy-1-methyl-6-oxopyrimidin-2-yl]propan-2-yl]-5-methyl-1,3,4-oxadiazole-2-carboxamide
- **Canonical SMILES:** CC1=NN=C(O1)(=O)NC(C)(C)C2=NC(=C(C(=O)N2C)O)(=O)NCC3=CC=C(C=C3)F
- **Solubility:** >20mg/mL in DMSO
- **Storage:** Store at -20°C
- **General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
- **Shopping Condition:** Evaluation sample solution: ship with blue ice
  All other available size: ship with RT, or blue ice upon request

### Biological Activity

- **Targets:** Proteases
- **Pathways:** HIV Integrase

**Description:**

Raltegravir, formerly named MK-0518, is an HIV-1 integrase strand transfer inhibitor which has been shown to have activity against multidrug-resistant HIV-1 and both CCR5-trophic and CXCR4-trophic HIV-1 in vitro. Structural modifications on these molecules are made in order to maximize potency as HIV-integrase inhibitors against the wild type virus, a selection of mutants,
and optimize the selectivity, pharmacokinetic, and metabolic profiles in preclinical species. Raltegravir derives from the evolution of 5,6-dihydroxypyrimidine-4-carboxamides and N-methyl-4-hydroxyprymidinone-carboxamides. It has been shown to have potent antiretroviral effects, with a mean decrease from baseline in HIV-1 RNA concentrations of about 2 log10 copies per mL after 10 days of monotherapy.

Reference:


FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

ApexBio Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com