**PRODUCT INFORMATION**

Peramivir

*Item No. 23765*

**CAS Registry No.:** 330600-85-6

**Formal Name:** (1S,2S,3R,4R)-3-[(1S)-1-(acetylamino)-2-ethylbutyl]-4-[(aminoiminomethyl)amino]-2-hydroxy-cyclopentanecarboxylic acid

**Synonyms:** BCX 1812, RWJ 270201

**MF:** C₁₅H₂₈N₄O₄

**FW:** 328.4

**Purity:** ≥98%

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** ≥2 years

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

**Laboratory Procedures**

Peramivir is supplied as a crystalline solid. A stock solution may be made by dissolving the peramivir in the solvent of choice, which should be purged with an inert gas. Peramivir is slightly soluble in ethanol and methanol.

**Description**

Peramivir is an inhibitor of influenza neuraminidase (IC₅₀₅ = 0.09 and 11 nM for influenza A and B neuraminidases, respectively). It is selective for influenza neuraminidase over bacterial, mammalian, and other viral neuraminidases (IC₅₀₅ = >300 μM). Peramivir inhibits neuraminidase activity in H1N1, H2N2, H3N2, and H6N2 influenza strains (IC₅₀₅ = 0.09-1.1 nM) and reduces lysis of MDCK cells infected with influenza (EC₅₀₅ = <0.01-21 nM). Pretreatment with peramivir (10-100 mg/kg) protects mice against lethal influenza infections. It also increases survival in ferrets infected intranasally with avian influenza type A H5N1 when injected intramuscularly after infection. Formulations containing peramivir have been used to treat influenza.

**References**