Amino Tadalafil
Item No. 20876

CAS Registry No.: 385769-84-6
Formal Name: (6R,12aR)-2-amino-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-pyrazino[1':2':1,6]pyrido[3,4-b]indole-1,4-dione
MF: C_{21}H_{18}N_{4}O_{4}
FW: 390.4
Purity: ≥98%
UV/Vis.: λ_{max}: 220, 283, 290 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Amino tadalafil is supplied as a crystalline solid. A stock solution may be made by dissolving the amino tadalafil in the solvent of choice. Amino tadalafil is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of amino tadalafil in these solvents is approximately 15 mg/ml.

Amino tadalafil is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, amino tadalafil should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Amino tadalafil 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

Amino tadalafil is an analog of tadalafil (Item No. 14024), a potent inhibitor of phosphodiesterase 5 with applications in several conditions, including erectile dysfunction, pulmonary arterial hypertension, and lower urinary tract dysfunction. Amino tadalafil has been detected as an illegal adulterant in a dietary supplement marketed for “tonic effect.”

References