

Materials List for:

A Direct, Early Stage Guanidinylation Protocol for the Synthesis of Complex Aminoguanidine-containing Natural Products

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Materials

Name	Company	Catalog Number	Comments
Chloroform-d	Sigma-Aldrich	612200-100G	99.8% D, 0.05% v/v tetramethylsilane; Caution: toxic
Dimethylsulfoxide-d ₆		185965-50G	99.9% D, 1% v/v tetramethylsilane
sodium thiosulfate pentahydrate	Sigma-Aldrich	S8503-2.5KG	
sodium sulfate, anhydrous	Sigma-Aldrich	238597-2.5KG	
silica gel	Fisher Scientific	S825-25	Merck, Grade 60, 230-400 mesh
washed sea sand	Sigma-Aldrich	274739-5KG	
hexane	Sigma-Aldrich	178918-20L	Caution: flammable
ethyl acetate	Sigma-Aldrich	319902-4L	
methylene chloride	Sigma-Aldrich	D65100-4L	
sodium chloride	Sigma-Aldrich	S9888-10KG	
sodium bicarbonate	Sigma-Aldrich	S6014-2.5KG	
acetic acid	Sigma-Aldrich	695092-2.5L	
hydrochloric acid	Sigma-Aldrich	258248-2.5L	Caution: Corrosive
bromine	Sigma-Aldrich	470864-50G	>99.99% trace metals basis; Caution: Corrosive, causes severe burns
hydrobromic acid	Sigma-Aldrich	244260-500ML	48% aqueous; Caution: Corrosive
2,5-dimethoxyphenylacetic acid	ChemImpex	26909	
chloroform	Sigma-Aldrich	132950-4L	Caution: Toxic
tetrahydrofuran	Sigma-Aldrich	360589-4x4L	Caution: highly flammable
<i>N,N</i> -diisopropylethylamine	Sigma-Aldrich	D125806-500ML	Caution: Corrosive
triethylamine	Sigma-Aldrich	T0886-1L	Caution: Corrosive
3 Angstrom molecular sieves	Sigma-Aldrich	208574-1KG	
calcium hydride	Sigma-Aldrich	213268-100G	Caution: Corrosive, reacts violently with water
ammonium molybdate	Sigma-Aldrich	431346-50G	
phosphomolybdic acid	Sigma-Aldrich	221856-100G	
cerium(IV) sulfate	Sigma-Aldrich	359009-25G	
1-butanol	Sigma-Aldrich	537993-1L	
1,4-butanediamine	Sigma-Aldrich	D13208-100G	Caution: Corrosive / warm in hot water bath to melt prior to use
triposgene	VWR	200015-064	Caution: Highly Toxic
methanol	Sigma-Aldrich	646377-4X4L	
sodium acetate	Sigma-Aldrich	241245-100G	

Dimethylsulfoxide-d ₆	Sigma-Aldrich	570672-50G	Anhydrous, 99.9% D
sodium hydroxide	Sigma-Aldrich	221465-500G	Caution: Corrosive
guanidine hydrochloride	Sigma-Aldrich	G4505-25G	Caution: Toxic, Corrosive
di-tert-butyl dicarbonate	VWR	200002-018%	Caution: Toxic / may warm in hot water bath to melt prior to use
trifluoromethanesulfonic anhydride	Fisher Scientific	50-206-771	98%, anhydrous; Caution: toxic, corrosive, extremely moisture sensitive