Nucleus Protocols

Make Small Molecule Mix — Bill of Materials

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
Potassium Hydroxide	Salts	Potassium hydroxide - ACS reagent, ≥85%, pellets	Sigma-Aldrich	221473-1KG	$99.90	4 °C to 30 °C	link
Hydrochloric acid (1 M)	Salts	Hydrochloric acid 1 N, Reagent Grade, 500 mL	VWR	E447-500L	$72.46	4 °C to 30 °C	link
HEPES	Salts	HEPES, Crystalline Powder, ≥99.5% (titration), Poly bottle	Sigma-Aldrich	H3375-500G	$431	4 °C to 30 °C	link
Potassium Glutamate	Salts	L-Glutamic acid potassium monohydrate	Sigma-Aldrich	G1501-100G	$74.80	4 °C to 30 °C	link
Magnesium acetate	Salts	Magnesium acetate tetrahydrate	Sigma-Aldrich	M0631-100G	$34.80	4 °C to 30 °C	link
rATP	NTP	Adenosine 5′-triphosphate disodium salt hydrate, BioXtra, ≥99% (HPLC)	Sigma-Aldrich	A7699-1G	$125.00	−25 °C to −15 °C	link
rGTP	NTP	Guanosine 5′-triphosphate sodium salt hydrate, ≥95% (HPLC), powder	Sigma-Aldrich	G8877-100MG	$155	−25 °C to −15 °C	link
rCTP	NTP	Cytidine 5′-triphosphate disodium salt, ≥95%	Sigma-Aldrich	C1506-100MG	$102.00	−25 °C to −15 °C	link

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rUTP	NTP	Uridine 5′-triphosphate trisodium salt hydrate, Type IV, ≥93.0% (HPLC)	Sigma-Aldrich	U6750-100MG	$58.20	−25 °C to −15 °C	link
Creatine phosphate	Reagent	Sodium creatine phosphate dibasic tetrahydrate, ≥98.0%(NT)	Sigma-Aldrich	27920-1G	$102	−25 °C to −15 °C	link
TCEP-HCl (500 mM)	Reagent	Bond-Breaker® TCEP Neutral Solution, MW 286.65, 5 mL	Thermo Scientific	77720	$175.65	4 °C to 30 °C	link
Folinic acid	Reagent	Folinic acid calcium salt hydrate	Sigma-Aldrich	F7878-100MG	$108	4 °C to 30 °C	link
BME	Reagent	2-Mercaptoethanol	Sigma-Aldrich	M6250-100ML	$65.50	4 °C to 30 °C	link
Spermidine	Reagent	Spermidine, ≥99% (GC)	Sigma-Aldrich	S2626-5G	$176	−25 °C to −15 °C	link
Amino Acids	Biologic	Amino Acid Mix (3.25 mM)	b.next	—	—	−80 °C to −20 °C	Make Amino Acid Mix