

Darunavir (DRV) and Ritonavir (RTV)

Formulations available:

Darunavir:

- Tablets: 75 mg, 150 mg, 400 mg, 600 mg (if not able to swallow whole, may be crushed or chewed)
- [Oral suspension: 100 mg/ml (Not yet registered in SA, available on compassionate use access from manufacturer with SAHPRA Sec 21 approval)]

Ritonavir:

- Oral powder: 100 mg/packet (each 100 mg packet of RTV powder should be mixed with a small amount of water if administering the whole packet (100 mg), or 10 ml water if not administering the whole packet and administer the appropriate dose as per Table below or soft food and immediately ingested)
- Tablets: 100 mg (must be swallowed whole, not crushed or divided or chewed)

Dosing:

- Children <3 years of age OR <10 kg: DRV is not recommended

Weight band (kg)	No darunavir resistance-associated mutations on genotyping	Darunavir resistance-associated mutations on genotyping (V11I, V32I, L33F, I47V, I50V, I54M, I54L, T74P, L76V, I84V, L89V)
	Dose of darunavir (35 mg/kg, maximum 800 mg) and ritonavir (7 mg/kg, maximum 100 mg): once daily with food	Dose of darunavir (20 mg/kg, maximum 600 mg) and ritonavir (3 mg/kg, maximum 100 mg): twice daily with food
10 - <12	DRV 375 mg (2 x 150 mg + 1 x 75 mg tablets) + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 8 ml (80 mg)	DRV 225 mg (3 x 75 mg tablets), + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 4 ml (40 mg)
12 - <13	DRV 450 mg (3 x 150 mg tablets) + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 10 ml (100 mg)	DRV 225 mg (3 x 75 mg tablets), + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 4 ml (40 mg)
13 - <14	DRV 450 mg (3 x 150 mg tablets) + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 10 ml (100 mg)	DRV 300 mg (2 x 150 mg tablets), + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 5 ml (50 mg)
14 - <15	DRV 525 mg (3 x 150 mg tablets + 1 x 75 mg tablet) + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 10 ml (100 mg)	DRV 300 mg (2 x 150 mg tablets), + RTV oral powder 100 mg (1 packet) in 10 ml water & administer 5 ml (50 mg)
15 - <30	DRV 600 mg + RTV 100 mg (1 packet) or 100 mg tablet if able to swallow whole	DRV 400 mg (1 x 400 mg tablet) + RTV oral powder 100 mg (1 packet) or 100 mg tablet if able to swallow whole
30 - <40	DRV 675 mg (1 x 600 mg tablet + 1 x 75 mg tablet) + RTV 100 mg (1 packet) or 100 mg tablet if able to swallow whole	DRV 475 mg (1 x 400 mg + 1 x 75 mg tablets) + RTV 100 mg (1 packet) or 100 mg tablet if able to swallow whole
≥40	DRV 800 mg (2 x 400 mg tablets) + RTV 100 mg (1 packet) or 100 mg tablet if able to swallow whole	DRV 600 mg (1 x 600 mg tablet) + RTV 100 mg (1 packet) or 100 mg tablet if able to swallow whole

Adapted from US FDA prescribing information: Darunavir [package insert]. Food and Drug Administration. 2016. Available at:
https://www.accessdata.fda.gov/drugsatfda_docs/label/2016/021976s043,202895s017bledt.pdf.

Children on concomitant rifampicin-containing TB regimens:

- DRV is not compatible with these regimens, and the clinician should engage with the 3rd line committee to review ART and TB treatment